

CHEMICAL: SILVER NITRATE

CAS #: 7761-88-8

NOAA #: 4443

UN #: 1493

STCC: 4918742

RTECS: VW4725000

FORMULA: Ag.HNO3

LABEL: OXIDIZER

NFPA CODES: H F R S

CERCLA (Y/N): Y
RCRA:

EHS (Y/N):

313 (Y/N):

RQ: 1

TPQ:

LAST UPDATE:10/20/92

STATE at ambient temperature: [Gas, Liquid, Solid] (G/L/S):

LEVEL OF CONCERN: 0.00000000 gm/m3

LIQUID AMBIENT FACTOR:

LIQUID BOILING FACTOR:

LIQUID MOLTEN FACTOR:

SYNONYMS

LUNAR CAUSTIC
NITRATE D'ARGENT (FRENCH)
NITRIC ACID SILVER(1+) SALT
NITRIC ACID, SILVER(1+) SALT
NITRIC ACID SILVER(I) SALT
SILBERNITRAT
SILVER (I) NITRATE
SILVER MONONITRATE
SILVER NITRATE
SILVER NITRATE (AGNO3)
SILVER NITRATE (DOT)
SILVER(1+) NITRATE
SILVER(I) NITRATE (1:1)

CAMEO Response Information

[NOAA, 7600 Sand Point Way NE, Seattle, WA 98115 (206)
526-6317

GENERAL DESCRIPTION:

357791



Silver nitrate is a colorless or white crystalline solid becoming black on exposure to light or organic material. The material is soluble in water. It is non-combustible but it will accelerate the burning of combustible materials. If large quantities are involved in fire or the combustible material is finely divided an explosion may result. Prolonged exposure of the material to fire or heat may result in an explosion. Toxic oxides of nitrogen are produced in fires involving this material. ((c) AAR, 1991)

FIRE & EXPLOSIVE HAZARD:

Not flammable. Increases flammability of combustibles. (USCG, 1991)

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FIRE FIGHTING:

Flood with water. Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible.

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PROTECTIVE CLOTHING AND SUIT MATERIAL COMPATIBILITY (ACGIN 1985:) Wear appropriate equipment to prevent reasonable probability of skin contact.

Wear eye protection to prevent any possibility of eye contact. Workers should wash promptly when skin becomes contaminated. Work clothes should be changed daily if it is reasonably probable that the clothing may be contaminated. Remove clothing promptly if it is non-impervious clothing that becomes contaminated.

The following equipment should be available: Eyewash

(NIOSH, 1990)

MATERIAL RATINGS

BARRICADE	GT 3 hrs[limited data]
BUTYL	GT 3 hrs[limited data]
NAT RUB	GT 3 hours
NAT RUB+NEOP	GT 3 hours
NAT RUB+NEOP+NBR	GT 3 hours
NEOP	GT 3 hours
NEOP/BUTYL	GT 3 hrs[limited data]
NEOP/NAT RUB	GT 3 hours
NITRILE	GT 3 hours
NITRILE+PVC	GT 3 hrs[limited data]
PE	GT 3 hrs[limited data]
PE/EVAL/PE	GT 3 hours
PTFE TEFLON	GT 3 hrs[limited data]
PVC	GT 3 hrs[limited data]
RESPONDER	GT 3 hours
SARANEX23P	GT 3 hrs[limited data]

NONFIRE RESPONSE:

Keep sparks, flames, and other sources of ignition away. Keep material out of water sources and sewers. Land spill: Dig a pit, pond, lagoon, holding area to contain liquid or solid material. Cover solids with a plastic sheet to prevent dissolving in rain or fire fighting water. Water spill: If dissolved, apply sodium sulfide (Na_2S) solution to precipitate heavy metals. Neutralize with agricultural lime (CaO), crushed limestone (CaCO_3), or sodium bicarbonate (NaHCO_3). Use mechanical dredges or lifts to remove immobilized masses of pollutants and precipitates. ((c) AAR,

1991)INS^AY

HEALTH HAZARDS:

SOLIDS. Irritating to skin and eyes. Harmful if swallowed. (USCG, 1991)BN

FIRST AID:

If this chemical contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids.

Get medical attention immediately. Contact lenses should not be worn when working with this chemical.

If this chemical contacts the skin, flush the contaminated skin with water. Where there is evidence of skin irritation, get medical attention.

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped, perform mouth-to-mouth resuscitation. Keep the affected person warm and at rest. Get medical attention as soon as possible.

If this chemical has been swallowed, get medical attention immediately.

(NIOSH, 1990)ou;3

NEOP/BUTYL GT 3 hrs[limited data]

NEOP/NAT RUB GT 3 hours
NITRILE GT 3 hours
NITRILE+PVC GT 3 hrs[limited data]
PE GT 3 hrs[limited data]
PE/EVAL/PE GT 3 hours
PTFE TEFLON GT 3 hrs[limited data]
PVC GT 3 hrs[limited data]
RESPONDER GT 3 hours
SARANEX23P GT 3 hrs[limited data]

CHEMICAL PROPERTIES:

Flash Point: Not Applicable. Not flammable. (USCG, 1991)
Lower Exp Limit: Not Applicable. Not flammable. (USCG, 1991)
Upper Exp Limit: Not Applicable. Not flammable. (USCG, 1991)
Auto Igtn Temp: Not Applicable. Not flammable. (USCG, 1991)
Melting Point: 414 F (USCG, 1991)
Vapor Pressure: Not Applicable. (USCG, 1991)
Vapor Density (air = 1): Not Applicable. (USCG, 1991)
Specific Gravity, Solid: 4.35 at 66.2 F (USCG, 1991)
Boiling Point: Decomposes. (USCG, 1991)
Molecular Weight: 169.87 (USCG, 1991)
IDLH: No evidence (NIOSH, 1990)
TLV TWA: 0.01 mg/m3 For Silver. ((c)ACGIH, 1991)E≤
